



Y N

16. Does the response (Q) meet the acceptance criteria in Table 5? [7.4.3]
- a.) Is test repeated for those parameters that fail to meet the criteria? [7.4.4]
- b.) If second test failed, was a new calibration curve prepared for that parameter? [7.4.4]

#### QA/QC

17. Have the following operations been performed by each analyst to demonstrate accuracy and precision? [8.2]
- a.) Were four 5-mL aliquots of a quality control (QC) check sample containing each parameter of interest at a concentration of 20 µg/L in reagent water prepared and analyzed? These samples must have been prepared from a source separate from the calibration standards used. [8.2.1]
- b.) Did the standard deviation (s) and average recovery (X) in µg/L meet acceptance criteria listed in Table 5? [8.2.5]
- c.) If there was a failure, were the four aliquots prepared again and analyzed for the failed parameter? [8.2.6.2]
- d.) If any parameter failed more than once, were all parameters reanalyzed? [8.2.6.2]
18. Before analysis of samples, is a reagent water blank analyzed to demonstrate that system is under control? [8.1.3]
19. Are 5% of samples from each sampling site spiked? If only 1-20 samples are analyzed per month, only one spike is required. [8.3]
20. What is the concentration of the sample spike? (1 to 5 times background is recommended.) [8.3.1.1]
21. Do spike recoveries meet the acceptance criteria? [8.3.3]
22. For each failed spike, was a QC check standard analyzed and acceptable recovery (listed in Table 5) achieved? [8.4]
23. Is each sample, standard, and blank spiked with surrogate standard spiking solution (minimum of three surrogate compounds) and internal standards? [8.6, 11.4]
24. Are the BFB criteria in Table 2 met before any sample analysis is performed? [10.3]

#### ANALYSIS

25. Is purge gas flow rate adjusted to 40 mL/min.? [11.3]
26. Is 5.0 mL of sample analyzed? [11.4]
27. Is sample purged for 11.0 ± 0.1 min.? [11.6]
28. Is trap desorbed at 180°C for 4 min.? [11.7]
29. Is trap baked at 180°C for 7 min. between samples? [11.9]
30. Does the retention time of the sample target compound agree within ± 30 seconds of that measured for the standards? [12.1.2]
31. Does the relative peak height of the three characteristic masses agree within ± 20% of the relative intensities of these masses in a reference mass spectrum? [12.1.3]

PROBLEMS: